

ABSTRACT:

Hybrid Deicing System And Method Of Operation

This invention overcome the disadvantage of the prior systems and produces a high velocity specially formed and constituted pressure aerodynamic stream for efficiently and effectively removing ice from an aircraft. The specially formed stream includes a stream within a stream, wherein a deicing fluid such a glycol is entrained within and encased by a surrounding jacket of entraining fluid such air. This deicing is now known as coaxial stream/stream within a stream deicing. The special nozzle allows the stream to maintain fluid separation over its flight path so that aircraft contact is made by to be known as coaxial stream/stream within a stream deicing. The coaxial stream/stream within a stream deicing is further enhanced by pressurizing the stream to deliver the stream as a high pressure high velocity stream to improved the aerodynamic sweeping action of the airstream